OIPE 0570
1226
#12

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/966,264D

CRF Processing Date: 11/16/2003

ENTERED

Edited by:

Verified by: (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:

  _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

  _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

  _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

  _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:

  _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically:

  _____
- ☑ Deleted: ☑ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____.
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically:

  _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:

  _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other:

  _____

  _____

  _____

  _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

OIPE

RAW SEQUENCE LISTING DATE: 01/16/2003
PATENT APPLICATION: **US/09/966,264D** TIME: 12:22:10

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01162003\I966264D.raw**

```
      3 <110> APPLICANT: Barber, Elizabeth K
      5 <120> TITLE OF INVENTION: Gene Expression Control Element DNA
      7 <130> FILE REFERENCE: 896034605001
W-->  8 <140> CURRENT APPLICATION NUMBER: US/09/966,264CD
      9 <141> CURRENT FILING DATE: 2001-09-28
     11 <150> PRIOR APPLICATION NUMBER: US 60/237,079
     12 <151> PRIOR FILING DATE: 2000-09-30
     14 <160> NUMBER OF SEQ ID NOS: 61
     16 <170> SOFTWARE: PatentIn version 3.1
     18 <210> SEQ ID NO: 1
     19 <211> LENGTH: 137
     20 <212> TYPE: DNA
     21 <213> ORGANISM: human
     23 <400> SEQUENCE: 1
     25 at tat aaa gga aaa aga aaa taa cgc aat gga caa gtg gtg aag ctg  47
     26    Tyr Lys Gly Lys Arg Lys     Arg Asn Gly Gln Val Val Lys Leu
     27    1               5                   10
     29 tga act cag gtg tgc aca att atc agg aac acc cca aaa cca aag tga 95
     30     Thr Gln Val Cys Thr Ile Ile Arg Asn Thr Pro Lys Pro Lys
     31     15                  20                  25
     33 ggt aga aat agc atg aga agc cgt gtt tga tgt taa tta att        137
     34 Gly Arg Asn Ser Met Arg Ser Arg Val     Cys     Leu Ile
     35     30                  35                      40
     38 <210> SEQ ID NO: 2
     39 <211> LENGTH: 996
     40 <212> TYPE: DNA
     41 <213> ORGANISM: human
     43 <400> SEQUENCE: 2
     45 gtg gtt tga ttg ata gta aaa aaa atg ttc gtt aat aca agt aga gag 48
     46 Val Val     Leu Ile Val Lys Lys Met Phe Val Asn Thr Ser Arg Glu
     47 1                   5                   10                  15
     49 taa gta atc aat caa tca ctc ata gcc aag gtg gaa aag atg tat ccc 96
     50     Val Ile Asn Gln Ser Leu Ile Ala Lys Val Glu Lys Met Tyr Pro
     51                   20                  25                  30
     53 atc atg gaa tat tcc tgt tct gat aga aat ctt gtg ctt atc tat gga 144
     54 Ile Met Glu Tyr Ser Cys Ser Asp Arg Asn Leu Val Leu Ile Tyr Gly
     55                 35                  40                  45
     57 att ctt ttg ata tat att tac att ggg aac ctg aat gta gct tga cat 192
     58 Ile Leu Leu Ile Tyr Ile Tyr Ile Gly Asn Leu Asn Val Ala     His
     59             50                  55                  60
     61 ttt tcc atg taa aca cca gta gcc tga tcc aac att aag ctg ata cta 240
     62 Phe Ser Met     Thr Pro Val Ala     Ser Asn Ile Lys Leu Ile Leu
     63                 65                  70                  75
```

RAW SEQUENCE LISTING DATE: 01/16/2003
PATENT APPLICATION: **US/09/966,264D** TIME: 12:22:10

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01162003\I966264D.raw**

```
65 aca aac aac gtg taa tgg ctt cat taa taa ggc ttt gct tct tcc tgg 288
66 Thr Asn Asn Val     Trp Leu His         Gly Phe Ala Ser Ser Trp
67                     80                      85
69 aaa ctg gtg aaa aat caa acc ttg ttg tgt aca ccc tcg atg cag ctt 336
70 Lys Leu Val Lys Asn Gln Thr Leu Leu Cys Thr Pro Ser Met Gln Leu
71     90                  95                  100
73 ctg tgt tgt ctt cac cca gaa atg ggg aat gat ttc cca aat ggc aaa 384
74 Leu Cys Cys Leu His Pro Glu Met Gly Asn Asp Phe Pro Asn Gly Lys
75 105                 110                 115                 120
77 gaa aca gag tga tgc tat cta tct gca cct ttt gta aag tct gtc ttt 432
78 Glu Thr Glu     Cys Tyr Leu Ser Ala Pro Phe Val Lys Ser Val Phe
79                     125                 130                 135
81 ctt tct ctt tgt ttt cca gga cac aat gta gga agt ctt ttc cac atg 480
82 Leu Ser Leu Cys Phe Pro Gly His Asn Val Gly Ser Leu Phe His Met
83                 140                 145                 150
85 gca gat gat ttg ggc aga gcg atg gag tcc tta gta tca gtc atg aca 528
86 Ala Asp Asp Leu Gly Arg Ala Met Glu Ser Leu Val Ser Val Met Thr
87             155                 160                 165
89 gat gaa gaa gga gca gaa taa atg ttt tac aac tcc tga ttc ccg cat 576
90 Asp Glu Glu Gly Ala Glu     Met Phe Tyr Asn Ser     Phe Pro His
91         170                 175                 180
93 ggt ttt tat aat att cat aca aca aag agg att aga cag taa gag ttt 624
94 Gly Phe Tyr Asn Ile His Thr Thr Lys Arg Ile Arg Gln     Glu Phe
95             185                 190                 195
97 aca aga aat aaa tct ata ttt ttg tga agg gta gtg gta tta tac tgt 672
98 Thr Arg Asn Lys Ser Ile Phe Leu     Arg Val Val Val Leu Tyr Cys
99             200                 205                 210
101 aga ttt cag tag ttt cta agt ctg tta ttg ttt tgt taa caa tgg cag 720
102 Arg Phe Gln     Phe Leu Ser Leu Leu Leu Phe Cys     Gln Trp Gln
103                 215                 220                 225
105 gtt tta cac gtc tat gca att gta caa aaa agt tat aag aaa act aca 768
106 Val Leu His Val Tyr Ala Ile Val Gln Lys Ser Tyr Lys Lys Thr Thr
107                 230                 235                 240
109 tgt aaa atc ttg ata gct aaa taa ctt gcc att tct tta tat gga acg 816
110 Cys Lys Ile Leu Ile Ala Lys     Leu Ala Ile Ser Leu Tyr Gly Thr
111             245                 250                 255
113 cat ttt ggg ttg ttt aaa aat tta taa cag tta taa aga aag aat tat 864
114 His Phe Gly Leu Phe Lys Asn Leu     Gln Leu     Arg Lys Asn Tyr
115             260                 265                 270
117 aaa gga aaa aga aaa taa cgc aat gga caa gtg gtg aag ctg tga act 912
118 Lys Gly Lys Arg Lys     Arg Asn Gly Gln Val Val Lys Leu     Thr
119                 275                 280
121 cag gtg tgc aca att atc agg aac acc cca aaa cca aag tga ggt aga 960
122 Gln Val Cys Thr Ile Ile Arg Asn Thr Pro Lys Pro Lys     Gly Arg
123 285                 290                 295
125 aat agc atg aga agc cgt gtt tga tgt taa tta att                 996
126 Asn Ser Met Arg Ser Arg Val     Cys     Leu Ile
127 300                 305
130 <210> SEQ ID NO: 3
```

RAW SEQUENCE LISTING DATE: 01/16/2003
PATENT APPLICATION: **US/09/966,264D** TIME: 12:22:10

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01162003\I966264D.raw**

```
131 <211> LENGTH: 13
132 <212> TYPE: PRT
133 <213> ORGANISM: human
135 <400> SEQUENCE: 3
137 Met Tyr Pro Ile Met Glu Tyr Ser Cys Ser Asp Arg Asn
138 1               5                   10
141 <210> SEQ ID NO: 4
142 <211> LENGTH: 13
143 <212> TYPE: PRT
144 <213> ORGANISM: human
146 <400> SEQUENCE: 4
148 Tyr Ile Tyr Ile Gly Asn Leu Asn Val Ala Asp Thr Met
149 1               5                   10
152 <210> SEQ ID NO: 5
153 <211> LENGTH: 18
154 <212> TYPE: PRT
155 <213> ORGANISM: human
157 <400> SEQUENCE: 5
159 Asp Asp Leu Gly Arg Ala Met Glu Ser Leu Val Ser Val Met Thr Asp
160 1               5                   10                  15
161 Glu Glu
165 <210> SEQ ID NO: 6
166 <211> LENGTH: 10
167 <212> TYPE: DNA
168 <213> ORGANISM: human
170 <400> SEQUENCE: 6
171 acttacctgt                                                    10
174 <210> SEQ ID NO: 7
175 <211> LENGTH: 22
176 <212> TYPE: DNA
177 <213> ORGANISM: human
179 <400> SEQUENCE: 7
180 ttataaagaa agaattataa ag                                      22
183 <210> SEQ ID NO: 8
184 <211> LENGTH: 42
185 <212> TYPE: DNA
186 <213> ORGANISM: human
188 <400> SEQUENCE: 8
189 ccttggctat gagtgattga ttgattactt actctctact tg                42
192 <210> SEQ ID NO: 9
193 <211> LENGTH: 20
194 <212> TYPE: DNA
195 <213> ORGANISM: human
197 <400> SEQUENCE: 9
198 gattgatagt aaaaaaaatg                                        20
201 <210> SEQ ID NO: 10
202 <211> LENGTH: 21
203 <212> TYPE: DNA
204 <213> ORGANISM: human
```

RAW SEQUENCE LISTING DATE: 01/16/2003
PATENT APPLICATION: **US/09/966,264D** TIME: 12:22:10

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01162003\I966264D.raw**

206 <400> SEQUENCE: 10
207 caatggcagg ttttacacgt c 21
210 <210> SEQ ID NO: 11
211 <211> LENGTH: 20
212 <212> TYPE: DNA
213 <213> ORGANISM: human
215 <400> SEQUENCE: 11
216 ggaaaagact tccacattgt 20
219 <210> SEQ ID NO: 12
220 <211> LENGTH: 22
221 <212> TYPE: DNA
222 <213> ORGANISM: human
224 <400> SEQUENCE: 12
225 ctttttcctt tataattctt tc 22
228 <210> SEQ ID NO: 13
229 <211> LENGTH: 22
230 <212> TYPE: DNA
231 <213> ORGANISM: human
233 <400> SEQUENCE: 13
234 catcaaacac ggcttctcat gc 22
237 <210> SEQ ID NO: 14
238 <211> LENGTH: 9
239 <212> TYPE: PRT
240 <213> ORGANISM: human
242 <220> FEATURE:
243 <221> NAME/KEY: MISC_FEATURE
244 <222> LOCATION: (1)..(3)
245 <223> OTHER INFORMATION: histone methylation site
247 <220> FEATURE:
248 <221> NAME/KEY: MISC_FEATURE
249 <222> LOCATION: (7)..(9)
250 <223> OTHER INFORMATION: histone methylation site
252 <400> SEQUENCE: 14
254 Arg Lys Asn Tyr Lys Gly Lys Arg Lys
255 1 5
258 <210> SEQ ID NO: 15
259 <211> LENGTH: 18
260 <212> TYPE: DNA
261 <213> ORGANISM: human
263 <400> SEQUENCE: 15
264 gttcgttaat acaagtag 18
267 <210> SEQ ID NO: 16
268 <211> LENGTH: 18
269 <212> TYPE: DNA
270 <213> ORGANISM: human
272 <400> SEQUENCE: 16
273 gccaaggtgg aaaagatg 18
276 <210> SEQ ID NO: 17
277 <211> LENGTH: 18

RAW SEQUENCE LISTING DATE: 01/16/2003
PATENT APPLICATION: **US/09/966,264D** TIME: 12:22:10

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01162003\I966264D.raw**

278 <212> TYPE: DNA
279 <213> ORGANISM: human
281 <400> SEQUENCE: 17
282 ccagtagcct gatccaac 18
285 <210> SEQ ID NO: 18
286 <211> LENGTH: 15
287 <212> TYPE: DNA
288 <213> ORGANISM: human
W--> 289 <400> SEQUENCE: 18
290 ggcttcatta ataag 15
293 <210> SEQ ID NO: 19
294 <211> LENGTH: 17
295 <212> TYPE: DNA
296 <213> ORGANISM: human
298 <400> SEQUENCE: 19
299 ggcaaagaaa cagagtg 17
302 <210> SEQ ID NO: 20
303 <211> LENGTH: 17
304 <212> TYPE: DNA
305 <213> ORGANISM: human
307 <400> SEQUENCE: 20
308 caggacacaa tgtagga 17
311 <210> SEQ ID NO: 21
312 <211> LENGTH: 23
313 <212> TYPE: DNA
314 <213> ORGANISM: human
316 <400> SEQUENCE: 21
317 gttataaaga aagaattata aag 23
320 <210> SEQ ID NO: 22
321 <211> LENGTH: 18
322 <212> TYPE: DNA
323 <213> ORGANISM: human
325 <400> SEQUENCE: 22
326 gaaaataacg caatggac 18
329 <210> SEQ ID NO: 23
330 <211> LENGTH: 19
331 <212> TYPE: DNA
332 <213> ORGANISM: human
334 <400> SEQUENCE: 23
335 gatgggatac atcttttcc 19
338 <210> SEQ ID NO: 24
339 <211> LENGTH: 20
340 <212> TYPE: DNA
341 <213> ORGANISM: human
343 <400> SEQUENCE: 24
344 caagctacat tcaggttccc 20
347 <210> SEQ ID NO: 25
348 <211> LENGTH: 18
349 <212> TYPE: DNA

VERIFICATION SUMMARY DATE: 01/16/2003
PATENT APPLICATION: **US/09/966,264D** TIME: 12:22:11

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\01162003\I966264D.raw**

L:8 M:283 W: Missing Blank Line separator, <140> field identifier
L:289 M:283 W: Missing Blank Line separator, <400> field identifier
L:1115 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=58

OIPE

RAW SEQUENCE LISTING DATE: 01/06/2003
PATENT APPLICATION: **US/09/966,264D** TIME: 14:33:38

Input Set : **A:\revised sequence listing.txt**
Output Set: **N:\CRF4\01062003\I966264D.raw**

```
      3 <110> APPLICANT: Barber, Elizabeth K
      5 <120> TITLE OF INVENTION: Gene Expression Control Element DNA
      7 <130> FILE REFERENCE: 896034605001
W-->  8 <140> CURRENT APPLICATION NUMBER: US/09/966,264CD
      9 <141> CURRENT FILING DATE: 2001-09-28
     11 <150> PRIOR APPLICATION NUMBER: US 60/237,079
     12 <151> PRIOR FILING DATE: 2000-09-30
     14 <160> NUMBER OF SEQ ID NOS: 61
     16 <170> SOFTWARE: PatentIn version 3.1
```

ERRORED SEQUENCES

Does Not Comply
Corrected Diskette Needed

```
   1148 <210> SEQ ID NO: 61
   1149 <211> LENGTH: 107
   1150 <212> TYPE: PRT
   1151 <213> ORGANISM: human
   1153 <400> SEQUENCE: 61
   1155 Met Tyr Pro Ile Met Glu Tyr Ser Cys Ser Asp Arg Asn Leu Val
   1156 1               5                  10                  15
   1158 Leu Ile Tyr Gly Ile Leu Leu Ile Tyr Ile Tyr Ile Gly Asn Leu
   1159                20                  25                  30
   1161 Asn Met Lys Lys Glu Gln Asn Lys Cys Phe Thr Thr Pro Asp Ser
   1162                35                  40                  45
   1164 Arg Met Val Phe Ile Ile Phe Ile Gln Gln Arg Gly Leu Asp Ser
   1165                50                  55                  60
   1167 Lys Ser Leu Gln Glu Ile Asn Leu Tyr Phe Cys Glu Gly Phe Tyr
   1168                65                  70                  75
   1170 Thr Ser Met Gln Leu Tyr Lys Lys Val Ile Arg Lys Leu His Lys
   1171                80                  85                  90
   1173 Ile Thr Gln Trp Thr Arg Thr Pro Gln Asn Gln Ser Glu Val Glu
   1175                95                  100                 105
   1177 Ile Ala
E--> 1180 (continued...)
```

delete

VERIFICATION SUMMARY DATE: 01/06/2003
PATENT APPLICATION: **US/09/966,264D** TIME: 14:33:39

Input Set : **A:\revised sequence listing.txt**
Output Set: **N:\CRF4\01062003\I966264D.raw**

L:8 M:283 W: Missing Blank Line separator, <140> field identifier
L:289 M:283 W: Missing Blank Line separator, <400> field identifier
L:1115 M:112 C: (48) String data converted to lower case,
M:112 Repeated in SeqNo=58
L:1180 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:61
L:1180 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:1180 M:330 E: (2) Invalid Amino Acid Designator, NUMBER OF INVALID KEYS:1
L:1180 M:252 E: No. of Seq. differs, <211> LENGTH:Input:107 Found:108 SEQ:61